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SEQUENCE LISTING

<110> Reed, Guy L. ~~#5~~

<120> Composition and Method for Enhancing Fibrinolysis

<130> 0609.4320003

<140> 09/977,283

<141> 2001-10-16

<150> 08/934,000

<151> 1997-09-19

<150> 60/026,356

<151> 1996-09-20

<160> 81

<170> PatentIn version 3.1

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> May be any Amino Acid

<400> 1

Xaa Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val  
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Asp Ile Gln Met Thr  
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<223> May be any Amino Acid

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Xaa Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val

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<210> 4

<211> 381

<212> DNA

<213> Artificial Sequence

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<220>

<221> CDS

<222> (1)..(381)

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<222> (1)..(60)

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<222> (-12)..(-12)

<223> May be either Gly or Ala

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Met	Ser	Val	Leu	Thr	Gln	Val	Leu	Xaa	Leu	Leu	Leu	Leu	Trp	Leu	Thr	
-20					-15				-10						-5	

ggg	gcc	aga	tgt	gac	atc	cag	atg	act	cag	tct	cca	gcc	tcc	cta	tct	96
Gly	Ala	Arg	Cys	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ser	
			1				5					10				

gca	tct	gtg	gga	gaa	act	gtc	acc	atc	aca	tgt	cga	gca	agt	ggg	aat	144
Ala	Ser	Val	Gly	Glu	Thr	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gly	Asn	
		15				20					25					

att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct	192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro	
30 35 40	
cag ctc ctg gtc tat aat gca aaa acc tta gca gat ggt gtg cca tca	240
Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser	
45 50 55 60	
agg ttc agt ggc agt gga tca gga aca caa ttt tct ctc agg atc aac	288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn	
65 70 75	
agc ctg cag cct gaa gat ttt ggg agt cat tac tgt caa cat ttt tgg	336
Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp	
80 85 90	
acc act ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa	381
Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys	
95 100 105	

<210> 5

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Met Ser Val Leu Thr Gln Val Leu Xaa Leu Leu Leu Trp Leu Thr
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Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
1 5 10

Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
15 20 25

-5-

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

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<222> (1)..(381)

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Met Ser Val Leu Thr Gln Val Leu Gly Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

48

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct	96
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser	
1 5 10	
gca tct gtg gga gaa act gtc acc gtc aca tgt cga gca agt ggg aat	144
Ala Ser Val Gly Glu Thr Val Thr Val Thr Cys Arg Ala Ser Gly Asn	
15 20 25	
att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct	192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro	
30 35 40	
cag ctc ctg gtc tat aat gca aga acc tta gca gat ggt gtg cca tca	240
Gln Leu Leu Val Tyr Asn Ala Arg Thr Leu Ala Asp Gly Val Pro Ser	
45 50 55 60	
agg ttc agt ggc agt gga tca gga aca caa tat tct ctc aag atc aac	288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn	
65 70 75	
agc ctg cag cct gaa gat ttt ggg agt tat tac tgt caa cat ttt tgg	336
Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp	
80 85 90	
agt aat ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa	381
Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys	
95 100 105	

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Met Ser Val Leu Thr Gln Val Leu Gly Leu Leu Leu Trp Leu Thr
-20 -15 -10 -5

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
1 5 10

Ala Ser Val Gly Glu Thr Val Thr Val Thr Cys Arg Ala Ser Gly Asn
15 20 25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
30 35 40

Gln Leu Leu Val Tyr Asn Ala Arg Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp  
80 85 90

Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

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atg agt gtg ctc act cag gtc ctg gcg ttg ctg ctg ctg tgg ctt aca  
Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

48

ggt gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct  
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser

96

	1	5	10	
gca tct gtg gga gaa act gtc acc atc aca tgt cga gca agt ggg aat				144
Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn				
	15	20	25	
att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct				192
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro				
	30	35	40	
caa ctc ctg gtc tat aat gca aaa acc tta gca gat ggt gtg cca tca				240
Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser				
	45	50	55	60
agg ttc agt ggc agt gga tca gga aca caa ttt tct ctc aag atc aac				288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn				
	65	70	75	
agc ctg cag cct gaa gat ttt ggg agt cat tac tgt caa cat ttt tgg				336
Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp				
	80	85	90	
acc act ccg tgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa				381
Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys				
	95	100	105	

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<223> Alpha-2 Antiplasmin Antibody

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Trp Leu Thr	
-20 -15 -10 -5	

Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser	
1 5 10	

Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn	
15 20 25	

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro	
30 35 40	



Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

<210> 10

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<223> May be either Asp or Ala

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<222> (-14)..(-14)

<223> May be either Asn or Thr

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser	
-15 -10 -5	

ctc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag	96
Leu Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys	
1 5 10	

cct gga gaa aca gtc aag atc tcc tgc aag gcc tct ggg tat acc ttc	144
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe	
15 20 25	

aca aac tat gga atg aac tgg gtg aag cag gct cca gga aag ggt tta	192
Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu	
30 35 40 45	

aag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat gct	240
Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala	
50 55 60	

gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gaa acc tct gcc agc	288
Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser	
65 70 75	

act gcc cat ttg cag atc aag aat ttc aga aat gag gac acg gct aca	336
Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr	
80 85 90	

tat ttc tgt gca aga tgg gta cct ggg acc tat gct atg gac tac tgg	384
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp	
95 100 105	

ggt caa gga acc tca gtc acc gtc tcc tca	414
Gly Gln Gly Thr Ser Val Thr Val Ser Ser	
110 115	

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<223> May be either Asp or Ala

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<223> May be either Asn or Thr

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
-15 -10 -5

Leu Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
1 5 10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

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<223> May be either Asp or Ala

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<223> May be either Asn or Thr

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atg gmt tgg gtg tgg amc ttg cta ttc ctg atg gca gct gcc caa agt	48
Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser	
-15 -10 -5	
atc caa gca cag atc cag ttg gtg cag tct gga cct gag ctg aag aag	96
Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys	
1 5 10	
cct gga gag aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc	144

Pro	Gly	Glu	Thr	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe		
	15					20					25						
aca	aag	tat	gga	atg	aac	tgg	gtg	aag	cag	gct	cca	gga	aag	ggg	tta	192	
Thr	Lys	Tyr	Gly	Met	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Lys	Gly	Leu		
	30				35				40						45		
aag	tgg	atg	ggc	tgg	ata	aac	acc	aac	agt	gga	gag	cca	aca	tat	gct	240	
Lys	Trp	Met	Gly	Trp	Ile	Asn	Thr	Asn	Ser	Gly	Glu	Pro	Thr	Tyr	Ala		
				50				55						60			
gaa	gag	ttc	aag	gga	cgg	ttt	gcc	ttc	tct	ttg	gaa	acc	tct	gcc	agc	288	
Glu	Glu	Phe	Lys	Gly	Arg	Phe	Ala	Phe	Ser	Leu	Glu	Thr	Ser	Ala	Ser		
			65				70						75				
act	gcc	tat	ttg	cag	atc	aac	aac	ctc	aaa	aat	gag	gac	tcg	gct	aca	336	
Thr	Ala	Tyr	Leu	Gln	Ile	Asn	Asn	Leu	Lys	Asn	Glu	Asp	Ser	Ala	Thr		
		80				85					90						
tat	ttc	tgt	gca	aga	tgg	gta	cct	ggg	acc	tat	gct	atg	gac	tac	tgg	384	
Tyr	Phe	Cys	Ala	Arg	Trp	Val	Pro	Gly	Thr	Tyr	Ala	Met	Asp	Tyr	Trp		
	95					100					105						
ggt	caa	gga	acc	tca	gtc	acc	gtc	tcc	tca							414	
Gly	Gln	Gly	Thr	Ser	Val	Thr	Val	Ser	Ser								
	110				115												

<210> 13

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<222> (-18)..(-18)

<223> May be either Asp or Ala

<220>

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<223> May be either Asn or Thr

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
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1 5 10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

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<222> (1)..(414)

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<223> May be either Asp or Ala

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<223> May be either Asn or Thr

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					-15					-10					-5	
atc	caa	gca	cag	atc	cag	ttg	gtg	cag	tct	gga	cct	gag	ctg	aag	aag	96
Ile	Gln	Ala	Gln	Ile	Gln	Leu	Val	Gln	Ser	Gly	Pro	Glu	Leu	Lys	Lys	
			1				5					10				
cct	gga	gaa	aca	gtc	aag	atc	tcc	tgc	aag	gct	tct	ggg	tat	acc	ttc	144
Pro	Gly	Glu	Thr	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	
	15					20					25					
aca	aac	tat	gga	atg	aac	tgg	gtg	aag	cag	gct	cca	gga	aag	ggt	tta	192
Thr	Asn	Tyr	Gly	Met	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Lys	Gly	Leu	
30					35					40					45	
aag	tgg	atg	ggc	tgg	ata	aac	acc	aag	agt	gga	gag	cca	aca	tat	gct	240
Lys	Trp	Met	Gly	Trp	Ile	Asn	Thr	Lys	Ser	Gly	Glu	Pro	Thr	Tyr	Ala	
				50					55					60		
gaa	gag	ttc	aag	gga	cgg	ttt	gcc	ttc	tct	ttg	gaa	acc	tct	gcc	agc	288
Glu	Glu	Phe	Lys	Gly	Arg	Phe	Ala	Phe	Ser	Leu	Glu	Thr	Ser	Ala	Ser	
			65				70						75			
act	gcc	aat	ttg	cag	atc	aag	aac	ctc	aaa	aat	gag	gac	acg	gct	aca	336
Thr	Ala	Asn	Leu	Gln	Ile	Lys	Asn	Leu	Lys	Asn	Glu	Asp	Thr	Ala	Thr	
		80					85					90				

tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac tgg 384  
Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

ggt caa gga acc tca gtc acc gtc tcc tca 414  
Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

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<222> (-18)..(-18)

<223> May be either Asp or Ala

<220>

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<223> May be either Asn or Thr

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Met Xaa Trp Val Trp Xaa Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
-15 -10 -5

Ile Gln Ala Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
1 5 10

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu



30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
95 100 105

Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

<210> 16

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<212> DNA

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<220>

<221> CDS

<222> (31)..(411)

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<222> (31)..(90)

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<400> 16

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-20 -15

gcg ttg ctg ctg ctg tgg ctt aca ggt gcc aga tgt gac atc cag atg	102
Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Asp Ile Gln Met	
-10 -5 1	
act cag tct cca tcc tcc cta tct gca tct gtg gga gac aga gtc acc	150
Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr	
5 10 15 20	
atc aca tgt cga gca agt ggg aat att cac aat tat tta gca tgg tat	198
Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr Leu Ala Trp Tyr	
25 30 35	
cag cag aaa cag gga aaa tct cct caa ctc ctg gtc tat aat gca aaa	246
Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr Asn Ala Lys	
40 45 50	
acc tta gca agt ggt gtg cca tca agg ttc agt ggc agt gga tca gga	294
Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly	
55 60 65	
aca gat ttt act ctc acc atc agc agc ctg cag cct gaa gat ttt ggg	342
Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Gly	
70 75 80	
agt cat tac tgt caa cat ttt tgg acc act ccg tgg acg ttc ggt gga	390
Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp Thr Phe Gly Gly	
85 90 95 100	
ggc acc aag ctg gaa atc aaa	411
Gly Thr Lys Leu Glu Ile Lys	
105	

<210> 17

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<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 17

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Trp Leu Thr	
-20 -15 -10 -5	
Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser	
1 5 10	
Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gly Asn	

15 20 25

Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
30 35 40

Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Ser Gly Val Pro Ser  
45 50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser  
65 70 75

Ser Leu Gln Pro Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp  
80 85 90

Thr Thr Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
95 100 105

<210> 18

<211> 417

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<222> (1)..(60)

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<400> 18

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Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

ggt gcc aga tgt cag atc cag ttg gtg cag tct gga tct gag ctg aag 96  
Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys  
1 5 10

aag cct gga gcc tca gtc aag atc tcc tgc aag gct tct ggg tat acc 144  
Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

ttc aca aac tat gga atg aac tgg gtg cga cag gct cca gga caa ggt 192  
Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

tta gag tgg atg ggc tgg ata aac acc aag agt gga gag cca aca tat 240  
Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

gct gaa gag ttc aag gga cgg ttt gtc ttc tct ttg gac acc tct gtc 288  
Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val  
65 70 75

acc act gcc tat ttg cag atc agc agc ctc aaa gct gag gac acg gct 336  
Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala  
80 85 90

gtg tat ttc tgt gca aga tgg gta cct ggg acc tat gcc atg gac tac 384  
Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

tgg ggt caa gga acc acg gtc acc gtc tcc tca 417  
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

<210> 19

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<212> PRT

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<400> 19

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys  
1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val  
65 70 75

Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala  
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

<210> 20

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<212> DNA

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gcg ttg ctg ctg ctg tgg ctt aca ggt gcc aga tgt cag atc cag ttg	102
Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Gln Ile Gln Leu	
-10 -5 1	
gtg cag tct gga gct gag gtg aag aag cct gga gcc tca gtc aag atc	150
Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Ile	
5 10 15 20	
tcc tgc aag gct tct ggg tat acc ttc aca aac tat gga atg aac tgg	198
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn Trp	
25 30 35	
gtg cga cag gct cca gga caa ggt tta gag tgg atg ggc tgg ata aac	246
Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn	
40 45 50	
acc aag agt gga gag cca aca tat gct gaa gag ttc aag gga cgg ttt	294
Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe Lys Gly Arg Phe	
55 60 65	
acc ttc acc ttg gac acc tct acg agc act gcc tat ttg gag atc agg	342
Thr Phe Thr Leu Asp Thr Ser Thr Ser Thr Ala Tyr Leu Glu Ile Arg	
70 75 80	
agc ctc aga tct gac gac acg gct gtg tat ttc tgt gca aga tgg gta	390
Ser Leu Arg Ser Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Val	
85 90 95 100	
cct ggg acc tat gcc atg gac tac tgg ggt caa gga acc acg gtc acc	438
Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr	
105 110 115	
gtc tcc tca	447
Val Ser Ser	

<210> 21

<211> 139

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<223> Alpha-2 Antiplasmin Antibody

<400> 21

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ala Glu Val Lys  
1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr  
65 70 75

Ser Thr Ala Tyr Leu Glu Ile Arg Ser Leu Arg Ser Asp Asp Thr Ala  
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

<210> 22

<211> 33

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<222> (1)..(6)

<223> May be any Nucleotide

<400> 22  
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33

<210> 23

<211> 42

<212> DNA

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<223> May be any Nucleotide

<400> 23  
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42

<210> 24

<211> 40

<212> DNA

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<220>

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<400> 24  
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40

<210> 25

<211> 88

<212> DNA



<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 25  
tagggagacc caagcttggt accaatttaa attgatatct ccttaggtct cgagtctcta 60  
gataaccggt caatcgattg ggattctt 88

<210> 26

<211> 88

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 26  
gacactatag aatagggccc ttccgcggtt ggatccaaca cgtgaagcta gcaagcggcc 60  
gcaagaattc caatcgattg accggtta 88

<210> 27

<211> 41

<212> DNA

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<220>

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<400> 27  
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<210> 28

<211> 41

<212> DNA

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<220>

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<400> 28

gatcggcgcc aaaggcgcg cgcaggtcac ccgggctagc a

41

<210> 29

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 29

ccgggcctct caaaaaagg aaaaaaagca tg

32

<210> 30

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 30

ctttttttcc cttttttgag aggc

24

<210> 31

<211> 74

<212> DNA

<213> Artificial Sequence

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<400> 31  
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gagatggagt ttgg 74

<210> 32

<211> 72

<212> DNA

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<400> 32  
cgccaaaactc catctcaaaa ataaaataaa ataaaattaa aaaaaaagggt tactctggct 60  
attcgaagcc gg 72

<210> 33

<211> 24

<212> DNA

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<400> 33  
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<210> 34

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 34

ctcgaggggt caccacgctg ctga

24

<210> 35

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 35

aacagctatg accatgatta c

21

<210> 36

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 36

cacccagcct gtgcctgcct g

21

<210> 37

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 37

cgattggaat tcttgcggcc gcttgctagc

30

<210> 38

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 38

cttgcggccg cttgctagca tggattgggt gtggaacttg ctattcctga tggcagctgc

60

ccaaagtatc caagcacaga

80

<210> 39

<211> 80

<212> DNA

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<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 39

cttgactgtt tctccagget tcttcagctc aggtccagac tgcaccaact ggatctgtgc 60  
ttggatactt tgggcagctg 80

<210> 40

<211> 80

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<400> 40  
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aactatggaa tgaactgggt 80

<210> 41

<211> 80

<212> DNA

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<400> 41  
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tcattccata gtttgtgaag 80

<210> 42

<211> 80

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<400> 42

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gacggtttgc cttctctttg 80

<210> 43

<211> 80

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 43

tcctcatttt tgaggttctt gatctgcaaa ttggcagtg tggcagaggt ttccaaagag 60

aaggcaaacc gtcccttgaa 80

<210> 44

<211> 80

<212> DNA

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<400> 44

gcagatcaag aacctcaaaa atgaggacac ggctacatat ttctgtgcaa gatgggtacc 60

tgggacctat gccatggact 80

<210> 45

<211> 80

<212> DNA

<213> Artificial Sequence

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<400> 45

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ggcataggtc ccaggtaccc 80

<210> 46

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 46

gggaagacgg atgggccctt ggtgctagc 29

<210> 47

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 47

atttaaattg atatctcctt aggtctcgag 30

<210> 48



<211> 79

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 48

atttaaattg atatctcctt aggtctcgag atgagtgtgc tcactcaggt cctggcggtg 60

ctgctgctgt ggcttacag 79

<210> 49

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 49

agatgcagat agggaggctg gagactgagt catctggatg tcacatctgg cacctgtaag 60

ccacagcagc agcaacgc 78

<210> 50

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 50

gtctccagcc tccctatctg catctgtggg agaaactgtc accatcacat gtcgagcaag 60

tggaatatt cacaatta

78

<210> 51

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 51

tatagaccag gagctgagga gattttccct gtttctgctg ataccatgct aaataattgt 60

gaatattccc acttgctc 78

<210> 52

<211> 78

<212> DNA

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<400> 52

aaatctctc agctcctggt ctataatgca aaaaccttag cagatgggtgt gccatcaagg 60

ttcagtgga gtggatca 78

<210> 53

<211> 78

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<400> 53  
ctcccaaaat cttcaggctg caggctgttg atcctgagag aaaattgtgt tcctgatcca 60  
ctgccactga accttgat 78

<210> 54

<211> 78

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<400> 54  
gcctgcagcc tgaagat tttt gggagtcatt actgtcaaca tttttggacc actccgtgga 60  
cgttcgggtg aggcacca 78

<210> 55

<211> 81

<212> DNA

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<400> 55  
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gcctccaccg aacgtccacg g 81

<210> 56

<211> 30

<212> DNA

<213> Artificial Sequence

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<400> 56

tcgattgacc gggtatctag agactcgaga

30

<210> 57

<211> 80

<212> DNA

<213> Artificial Sequence

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<400> 57

cttgcggccg cttgctagca tgagtgtgct cactcaggtc ctggcggttg tgctgctgtg

60

gcttacaggt gccagatgtc

80

<210> 58

<211> 80

<212> DNA

<213> Artificial Sequence

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<400> 58

gactgaggct ccaggcttct tcagctcaga tccagactgc accaactgga tctgacatct

60

ggcacctgta agccacagca

80

<210> 59

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 59

gagctgaaga agcctggagc ctcagtcaag atctcctgca aggcttctgg gtataccttc 60

acaaactatg gaatgaactg 80

<210> 60

<211> 80

<212> DNA

<213> Artificial Sequence

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<223> Alpha-2 Antiplasmin Antibody

<400> 60

tgggtgtttat ccagcccatc cactctaaac cttgtcctgg agcctgtcgc acccagttca 60

ttccatagtt tgtgaaggta 80

<210> 61

<211> 80

<212> DNA

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<400> 61

tagagtggat gggctggata aacaccaaga gtggagagcc aacatatgct gaagagttca 60

agggacgggtt tgtcttctct

80

<210> 62

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

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<210> 63

<211> 80

<212> DNA

<213> Artificial Sequence

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<400> 63

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acctgggacc tatgcatgg 80

<210> 64

<211> 80

<212> DNA

<213> Artificial Sequence

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<400> 64  
gcccttggtg ctagctgagg agacggtgac cgtgggtcct tgaccccagt agtccatggc 60  
ataggtccca ggtacccatc 80

<210> 65

<211> 80

<212> DNA

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<400> 65  
tgctgtggct tacaggtgcc agatgtcaga tccagttggt gcagtctgga gctgaggtga 60  
agaagcctgg agcctcagtc 80

<210> 66

<211> 80

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<400> 66  
tagagtggat gggctggata aacaccaaga gtggagagcc aacatatgct gaagagttca 60  
agggacgggt taccttcacc 80

<210> 67

<211> 80

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<400> 67  
tcagatctga ggctcctgat ctccaaatag gcagtgctcg tagaggtgtc caaggtgaag 60  
gtaaaccgtc ccttgaactc 80

<210> 68

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<212> DNA

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<400> 68  
tttgagatc aggagcctca gatctgacga cacggctgtg tatttctgtg caagatgggt 60  
acctgggacc tatgcatgg 80

<210> 69

<211> 78

<212> DNA

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<223> Alpha-2 Antiplasmin Antibody

<400> 69  
agatgcagat agggaggatg gagactgagt catctggatg tcacatctgg cacctgtaag 60  
ccacagcagc agcaacgc 78



<210> 70

<211> 78

<212> DNA

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<400> 70

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tgggaatatt cacaatta 78

<210> 71

<211> 78

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<400> 71

aaatctcctc aactcctggt ctataatgca aaaaccttag caagtgggtgt gccatcaagg 60

ttcagtggca gtggatca 78

<210> 72

<211> 78

<212> DNA

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<400> 72  
ctcccaaat cttcaggctg caggctgctg atggtgagag taaaatctgt tctgatcca 60  
ctgccactga accttgat 78

<210> 73

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 73

Tyr Pro Arg Ser Ile Tyr Ile Arg Arg Arg His Pro Ser Pro Ser Leu  
1 5 10 15

Thr Thr

<210> 74

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Alpha-2 Antiplasmin Antibody

<400> 74

Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser Gly Gly Ser Gly Ser  
1 5 10 15

<210> 75

<211> 107

<212> PRT

<213> Artificial Sequence

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<222> (21)..(21)

<223> May be any Amino Acid

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<222> (52)..(52)

<223> May be any Amino Acid

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<222> (71)..(71)

<223> May be any Amino Acid

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<222> (74)..(74)

<223> May be any Amino Acid

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<222> (94)..(94)

<223> May be any Amino Acid

<400> 75

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Glu Thr Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Gln Xaa Ser Leu Xaa Ile Asn Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 76

<211> 107

<212> PRT

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<223> May be any Amino Acid

<400> 76

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Xaa Ile Asn Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 77

<211> 107

<212> PRT

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<222> (9)..(9)

<223> May be any Amino Acid

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<222> (17)..(17)

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<222> (18)..(18)

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<223> May be any Amino Acid

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Xaa Xaa Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Xaa Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Xaa Xaa Xaa Leu Xaa Ile Xaa Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

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Gln	Ile	Gln	Leu	Val	Gln	Ser	Gly	Xaa	Glu	Xaa	Lys	Lys	Pro	Gly	Ala
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Ser	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asn	Tyr
			20					25					30		

Gly	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			

Gly	Trp	Ile	Asn	Thr	Lys	Ser	Gly	Glu	Pro	Thr	Tyr	Ala	Glu	Glu	Phe
	50					55					60				

Lys	Gly	Arg	Phe	Xaa	Phe	Xaa	Leu	Asp	Thr	Ser	Xaa	Ser	Thr	Ala	Tyr
65					70					75					80

Leu	Xaa	Ile	Xaa	Ser	Leu	Xaa	Xaa	Xaa	Asp	Thr	Ala	Val	Tyr	Phe	Cys
				85					90					95	

Ala	Arg	Trp	Val	Pro	Gly	Thr	Tyr	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		

Thr	Thr	Val	Thr	Val	Ser	Ser
						115

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1			5					10					15		

Thr	Val	Lys	Ile	Ser	Cys	Xaa	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Xaa	Tyr
		20					25					30			

Gly	Met	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Lys	Trp	Met
	35					40					45				

Gly	Trp	Ile	Asn	Thr	Xaa	Ser	Gly	Glu	Pro	Thr	Tyr	Ala	Glu	Glu	Phe
50					55					60					

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa  
65 70 75 80

Leu Gln Ile Xaa Asn Xaa Xaa Asn Glu Asp Xaa Ala Thr Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Ser Val Thr Val Ser Ser  
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Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu  
1 5 10 15

Thr Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met  
35 40 45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa  
65 70 75 80

Leu Gln Ile Lys Asn Xaa Xaa Asn Glu Asp Thr Ala Thr Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Ser Val Thr Val Ser Ser  
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Gln Ile Gln Leu Val Gln Ser Gly Xaa Glu Xaa Lys Lys Pro Gly Xaa  
1 5 10 15

Xaa Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr  
20 25 30

Gly Met Asn Trp Val Xaa Gln Ala Pro Gly Xaa Gly Leu Xaa Trp Met  
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60

Lys Gly Arg Phe Xaa Phe Xaa Leu Xaa Thr Ser Xaa Ser Thr Ala Xaa  
65 70 75 80

Leu Xaa Ile Xaa Xaa Xaa Xaa Xaa Asp Xaa Ala Xaa Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Xaa Val Thr Val Ser Ser  
115